

# SEQUENCE LISTING

<110> Chunduru, Srinivas K.  
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<120> Compounds, Compositions and Methods for  
Treatment and Prophylaxis of Hepatitis C Viral Infections  
and Associated Diseases

<130> 1282-P03335US01

<140> 10/579,813

<141> 2006-05-16

<150> PCT/US2004/039533

<151> 2004-11-24

<150> 60/525,042

<151> 2003-11-24

<150> 60/526,383

<151> 2003-12-02

<150> 60/526,198

<151> 2003-12-02

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<151> 2003-12-02

<150> 60/526,247

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<150> 60/526,248

<151> 2003-12-02

<150> 60/526,220

<151> 2003-12-02

<160> 4

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 783

<212> DNA

<213> Hepatitis C Virus

<400> 1

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| gcctcacacc | tcccttacat | cgaacagggg  | atgcagctcg | ccgaacaatt  | caaacagaag | 60  |
| gcaatcgggt | tgctgcaaac | agccaccaag  | caagcggagg | ctgctgctcc  | cgtggtggaa | 120 |
| tccaagtggc | ggaccctcga | agccttcttg  | gcgaagcata | tgtggaattt  | catcagcggg | 180 |
| atacaatatt | tagcaggctt | gtccactctg  | cctggcaacc | ccgcgatagc  | atcactgatg | 240 |
| gcattcacag | cctctatcac | cagcccgcgc  | accacccaac | ataccctcct  | gtttaacatc | 300 |
| ctggggggat | gggtggccgc | ccaacttgct  | cctcccagcg | ctgcttctgc  | tttcgtaggc | 360 |
| gccggcatcg | ctggagcggc | tgttggcagc  | ataggccttg | ggaagggtgct | tgtggatatt | 420 |
| ttggcagggt | atggagcagg | ggtggcaggc  | gcgctcgtgg | cctttaagggt | catgagcggc | 480 |
| gagatgccct | ccaccgagga | cctggttaac  | ctactccctg | ctatcctctc  | ccctggcgcc | 540 |
| ctagtcgtcg | gggtcggtg  | cgagcgata   | ctgcgtcggc | acgtgggccc  | aggggagggg | 600 |
| gctgtgcagt | ggatgaaccg | gctgatagcg  | ttcgcttcgc | ggggtaacca  | cgtctccccc | 660 |
| acgcactatg | tgcctgagag | cgacgctgca  | gcacgtgtca | ctcagatcct  | ctctagtctt | 720 |
| accatcactc | agctgctgaa | gaggccttcac | cagtggatca | acgaggactg  | ctccacgcca | 780 |
| tgc        |            |             |            |             |            | 783 |

<210> 2  
 <211> 261  
 <212> PRT  
 <213> Hepatitis C Virus

<400> 2  
 Ala Ser His Leu Pro Tyr Ile Glu Gln Gly Met Gln Leu Ala Glu Gln  
 1 5 10 15  
 Phe Lys Gln Lys Ala Ile Gly Leu Leu Gln Thr Ala Thr Lys Gln Ala  
 20 25 30  
 Glu Ala Ala Ala Pro Val Val Glu Ser Lys Trp Arg Thr Leu Glu Ala  
 35 40 45  
 Phe Trp Ala Lys His Met Trp Asn Phe Ile Ser Gly Ile Gln Tyr Leu  
 50 55 60  
 Ala Gly Leu Ser Thr Leu Pro Gly Asn Pro Ala Ile Ala Ser Leu Met  
 65 70 75 80  
 Ala Phe Thr Ala Ser Ile Thr Ser Pro Leu Thr Thr Gln His Thr Leu  
 85 90 95  
 Leu Phe Asn Ile Leu Gly Gly Trp Val Ala Ala Gln Leu Ala Pro Pro  
 100 105 110  
 Ser Ala Ala Ser Ala Phe Val Gly Ala Gly Ile Ala Gly Ala Ala Val  
 115 120 125  
 Gly Ser Ile Gly Leu Gly Lys Val Leu Val Asp Ile Leu Ala Gly Tyr  
 130 135 140  
 Gly Ala Gly Val Ala Gly Ala Leu Val Ala Phe Lys Val Met Ser Gly  
 145 150 155 160  
 Glu Met Pro Ser Thr Glu Asp Leu Val Asn Leu Leu Pro Ala Ile Leu  
 165 170 175  
 Ser Pro Gly Ala Leu Val Val Gly Val Val Cys Ala Ala Ile Leu Arg  
 180 185 190  
 Arg His Val Gly Pro Gly Glu Gly Ala Val Gln Trp Met Asn Arg Leu  
 195 200 205  
 Ile Ala Phe Ala Ser Arg Gly Asn His Val Ser Pro Thr His Tyr Val  
 210 215 220  
 Pro Glu Ser Asp Ala Ala Ala Arg Val Thr Gln Ile Leu Ser Ser Leu  
 225 230 235 240  
 Thr Ile Thr Gln Leu Lys Arg Leu His Gln Trp Ile Asn Glu Asp  
 245 250 255  
 Cys Ser Thr Pro Cys  
 260

<210> 3  
 <211> 783  
 <212> DNA  
 <213> Hepatitis C Virus

<220>  
 <221> misc\_feature  
 <222> (609)...(609)  
 <223> k = g or t

<400> 3  
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 tccaagtggc ggaccctcga agccttctgg gcgaggcata tgtggaattt catcagcggg 180  
 atacaatatt tagcaggcct gtccactctg cctggcaacc ccgcgatagc atcactgatg 240  
 gcattcacag cctctatcac cagcccgctc accaccaac ataccctcct gtttaacatc 300  
 ctgggggggat ggggtggccgc ccaacttgct cctcccagcg ctgcttctgc tttcgtagtc 360  
 gccggcatcg ctggagcggc tgttggcagc ataggccttg ggaagggtgt tgtggatatt 420  
 ttggcagggt atggagcagg ggtggcaggc gcgctcgttg cctttaaggt catgagcggc 480  
 gagatgccct ccaccgagga cctgggtcaac ctactccctg ctatcctctc ccctggcgcc 540  
 ctagtctcgc gggctcgtgtg cgcagcgata ctgcgtcggc acgtgggccc aggggagggg 600  
 gctgtgcakt ggatgaaccg gctgatatcg ttcgcttcgc ggggtaacca cgtctcccc 660  
 acgcactatg tgcctgagag cgacgctgca gcacgtgtca ctcagatcct ctctagtctt 720  
 accatcactc agctgctgaa gaggcttcac cagtggatca acgaggactg ctccacgcga 780  
 tgc 783

<210> 4  
 <211> 261  
 <212> PRT  
 <213> Hepatitis C Virus

<220>  
 <221> UNSURE  
 <222> (203)...(203)  
 <223> Xaa = any amino acid

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 Ala Ser His Leu Pro Tyr Ile Glu Gln Gly Met Gln Leu Ala Glu Gln  
 1 5 10 15  
 Phe Lys Gln Lys Ala Ile Gly Leu Leu Gln Thr Ala Thr Lys Gln Ala  
 20 25 30  
 Glu Ala Ala Pro Val Val Glu Ser Lys Trp Arg Thr Leu Glu Ala  
 35 40 45  
 Phe Trp Ala Arg His Met Trp Asn Phe Ile Ser Gly Ile Gln Tyr Leu  
 50 55 60  
 Ala Gly Leu Ser Thr Leu Pro Gly Asn Pro Ala Ile Ala Ser Leu Met  
 65 70 75 80  
 Ala Phe Thr Ala Ser Ile Thr Ser Pro Leu Thr Thr Gln His Thr Leu  
 85 90 95  
 Leu Phe Asn Ile Leu Gly Gly Trp Val Ala Ala Gln Leu Ala Pro Pro  
 100 105 110  
 Ser Ala Ala Ser Ala Phe Val Val Ala Gly Ile Ala Gly Ala Ala Val  
 115 120 125  
 Gly Ser Ile Gly Leu Gly Lys Val Leu Val Asp Ile Leu Ala Gly Tyr  
 130 135 140  
 Gly Ala Gly Val Ala Gly Ala Leu Val Ala Phe Lys Val Met Ser Gly  
 145 150 155 160  
 Glu Met Pro Ser Thr Glu Asp Leu Val Asn Leu Leu Pro Ala Ile Leu  
 165 170 175  
 Ser Pro Gly Ala Leu Val Val Gly Val Val Cys Ala Ala Ile Leu Arg  
 180 185 190  
 Arg His Val Gly Pro Gly Glu Gly Ala Val Xaa Trp Met Asn Arg Leu  
 195 200 205  
 Ile Ser Phe Ala Ser Arg Gly Asn His Val Ser Pro Thr His Tyr Val  
 210 215 220  
 Pro Glu Ser Asp Ala Ala Ala Arg Val Thr Gln Ile Leu Ser Ser Leu  
 225 230 235 240  
 Thr Ile Thr Gln Leu Leu Lys Arg Leu His Gln Trp Ile Asn Glu Asp  
 245 250 255  
 Cys Ser Thr Pro Cys  
 260